

SHUBHAM AGRAWAL

Computer Science Engineer

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EDUCATION

International Institute of Information Technol-
ogy, Hyderabad

M.Tech in Computer Science

📅 July 2019 - Present 📍 Hyderabad, Telangana, India

CGPA = 9.89

Medicaps Institute of Science and Technology

B.E. in Computer Science

📅 Aug 2015 - June 2019 📍 Indore, M.P., India

CGPA : 8.8

St. Mary Champion School

Senior Secondary Certificate (PCM)

📅 July 2013 - June 2015 📍 Indore, M.P., India

Percentage : 92%

St. Mary Champion School

Higher Secondary Certificate

📅 July 2011 - June 2013 📍 Indore, M.P., India

CGPA : 8.2

SKILLS

C, C++, Python, Java, Bash Scripting ●●●●●

HTML, CSS, JavaScript, XML ●●●●●

IRE, Data Science, Machine Learning ●●●●●

Android, Docker, GIT ●●●●●

MySQL, Oracle, Firebase ●●●●●

ACHIEVEMENTS

- Secured AIR 388 in GATE 2019
- Meritorious Performance in the 1st Year of B.E.

PROJECTS

Distributed IOT Platform

- Implemented a distributed platform that provides build, development, and deployment functionalities. The platform is robust and fault-tolerant.
- *Technologies used:* Docker, Flash, Python and Kafka

Search Engine

- *Dataset used:* 42GB English Wikipedia dump
- *Pre-processing:* Stemming, Lemmatisation and Multilevel Indexing
- *Ranking:* TF-IDF Score and Cosine Similarity
- *Searching:* Phrase queries and Field queries

Chat App

- Developed a chatting application in Android using Firebase Realtime database.
- *Features:* Authentication, Password Reset, Messaging, Profile image and Notifications

Version Control System

- Developed a Version Control system in Python.
- *Functionalities:* init, add, status, commit, roll-back, retrieve, log, diff, push and pull

Mini torrent

- Developed a Peer-to-Peer group based file sharing system.
- *Functionalities:* Chunk based sharing, Centralized tracker, Piece selection algorithm
- *Technologies used:* C++, Socket Programming and Multi-Threading

Image classification

- *Datasets Used:* MNIST dataset and CIFAR-10 dataset
- *Pre-processing:* Centering and Scaling of images and Dimensionality Reduction(PCA)
- *Classifiers:* SVM, Logistic Regression, MLP and CNN

Smart Home

- Developed a smart home system with Raspberry pi 3 and also an android app to operate it.
- *Functionalities:* Controlling home Appliances, Door Lock, Security system, Notifications via email
- *Technologies used:* Python, Android and Socket Programming

HONORS & AWARDS

- Chancellor's scholarship, RGPV Bhopal (2018)
- Shri Dewang Mehta Excellence Award (2016)